

Forestry - Forest Biology and Typology.

Abs Jour: Ref Zhur - Biol., No 19, 1958, 86854

K-2

Abstract: is categorically rejected. It is emphasized that, in connection with the ultimate goal of forestry, namely, of providing for maximally productive economic forms, a complex determination of forest economic types is necessary; this will be on the basis of a knowledge of the properties of specific woody species in their mutual relations and relations to conditions of habitat in the relationships within the biocenose as a whole (not only vegetative), and in relations and interaction with environmental conditions. Only such a method permits expedient planning of the species constitution of an economic forest planning. There are presented an outline for distinguishing, characterizing and indicating forest types; a list of groups, their geographic varieties and subgroups of Czechoslovakian forest types; an outline of the interrelations between groups of types; and an outline of concepts and

Card 2/3

ZLATNIK, Alois

"The larch of the Jeseniky Mountains" by Josef Nozicka. Reviewed
by Alois Zlatnik. Prid cas slezsky 23 no.3:382-383 '62.

ZLATNIK, ALOIS

Dendrologie. Praha, Statni pedagogicke nakl., 1957. 133 p. (Ucební texty
vysokých škol) (Dendrology; a university textbook)
DA Not in DLC

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

ZIATNIK, A.

Reforestation based on trees growing from stumps from the point of view of forest changes effected by human activity and the role of ecology. p. 109. (SBORNIK RADA LESNICTVI. Praha) (Vol. 30, No. 2, Feb. 1957)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, No. 7, July 1957. Uncl.

ZLATNIK, A.

Nature and study of mutual relations in the biocoenosis and its environment and of external influences on the biocoenosis and its environment pertaining especially to the forest. p. 5.

No. 1, 1955
SBORNIK RADA C: SPISY FAKULTY LESNICKE
Brno, Czechoslovakia

So: Eastern European Accession Vol. 5 No. 4 April 1956

ZLATNIK, A.

Some notes on the forests in higher altitudes of the Bohemian-Moravian Heights. p. 99.

No. 2, 1955

SBORNIK RADA C: SPISY FAKULTY LESNICKE

Brno, Czechoslovakia

So: Eastern European Accession Vol. 5 No. 4 April 1956

ZLATNIK, A.

Zlatnik, A.: Vozda, A.: Charlan, J. How knowledge of forest plants can be helpful in the work of a forester. p. 65. SRBIA: RADA 3: SPISY FAKULTY LESNICE. Brno. No. 1/2, 1958.

SO: Monthly List of the East European Accession, (HEAL), LC. Vol. 4, no. 10, Oct. 1955. Uncl.

ZLATNIK, A.

Combination of the comparative biocenotic and historical method in research on the change in forests, and reclamation of degraded forest soils using the example of northeastern Bohemia, p. 234.
SBORNÍK. RADA C: SPISY FAKULTY LESNÍČKÉ. Brno.
No. 4, 1955.

SOURCE: EEAL - LC Vol. 5 No. 10 Oct. 1956.

ZLATNIK, A.

Justification of complex typological forest research and a survey
of forest types in Czechoslovakia. p. 219. SBORNIK. RADA LESNICTVI.
Praha. Vol. 28, no. 2, Apr. 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 7, July 1956.

ZLATNIK, A.

Vezda, A.; Chmelar, J. How knowledge of forest plants can be helpful in the work of a forester. p. 85.

SBORNIK. RADA C: SPISY FAKULTY LESNICKE, Brno, No. 1/2, 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

ZLATNIK, Alois

ZLATNIK, Alois

Stanovistni pruskum s uzemnim planovanim a ochranou prirody. [Vyd. 1.] Praha,
Statni pedagogicke nakl., 1953. (Ucebni texty vysokych skol) [Spot Research in Regional
Planning and the Protection of Nature. Vol. 1. Spot Research. bibl.]

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4,
April 1954. Unclassified.

ZLATNIK, I.

"Surface hardening of rolls by means of induction heating."

HUTNICKE LISTY, Brno, Czechoslovakia, Vol. 14, No. 5, May 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

18-7100

1413,1045

23436
Z/034/61/000/005/001/010
EQ73/E535

AUTHOR: Zlatník, Ivan, Engineer

TITLE: Influence of hydrogen on the properties of large forgings of CrNiMo steels

PERIODICAL: Hutnické listy, 1961, No.5, pp.325-335

TEXT: In Part 1 of the paper the author deals with the influence of the process of annealing on the properties of the forgings, particularly with the following: various methods of annealing immediately after forging and their influence on the percentage of scrap; the most frequent causes of scrapping of forgings from the steel 34ChN3MA, especially of forgings of large cross-sections; the degree of through forging and the method of heat treatment; the main principles to be followed in establishing an annealing process; TTT diagram of the steel 34ChN3MA; practical application of methods of annealing of martensitic steel forgings and methods of quality control. This part deals with the experience gained by ZVTI, Pisen over a number of years in the manufacture of type 34ChN3MA CrNiMo steel of the following

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composition: 0.35% C, 0.55% Mn, 0.27% Si, 0.90% Cr, 3.00% Ni, 0.25% Mo. These forgings are produced from acidic open hearth steel ingots weighing 3.7 to 8 tons. Large forgings from this steel have a greater tendency to form flake cracks than similar forgings made of other types of steel. The tendency to crack formation and the quality of the forging is influenced decisively by the process of annealing immediately after forging. Two types of annealing processes are compared on the basis of results achieved in practical work. These are represented in the graph, Fig.1 (temperature, °C vs. annealing time, hours: a - continuous cooling at a speed of about 5°C/hour; b - same, combined with holding for 15 hours at 600°C; c - new method introduced for martensitic steel forgings). Originally, the annealing process according to a, Fig.1, was applied; following that, method b was introduced but produced no appreciable improvements. A statistical evaluation of the percentage of rejects over three years of forgings heat treated by the methods a and b, Fig.1, was made, investigating two groups of forgings, Group A,B,C of smaller forgings with a higher degree of through-forgings, i.e.

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with ratios of the ingot cross-section to the forging cross-section of 8.1 to 10.2, in these the scrapping was due to unsatisfactory mechanical properties after heat treatment. The second group M,N,L comprised larger ingots with relatively smaller degrees of through forging (2.3 to 2.8). It was found that the heat treatments a and b are relatively simple from the practical point of view but they do not provide a sufficient guarantee against the formation of flocculi in larger forgings of this steel. More recently, the heat treatment c, Fig.1, has been applied, paying particular attention to preventing excess charging of the furnace and to obtaining a correct position of the forgings relative to the burners. After charging the furnace and equalizing the temperature for a short time, the charge is cooled down to 200-300°C to ensure an as-complete bainitic transformation as possible or even a partial martensitic transformation. The flocculi form at low temperatures and, therefore, the forgings can be cooled at a maximum speed but care must be taken that the temperature of the coolest forging in the furnace does not drop below 200°C. Therefore, the lid of the soaking pit is taken off

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E073/E535

at first only for about 30 min to 1 hour so that the annealing is not excessively prolonged but the subsequent cooling down is in a closed furnace so as to reduce to a maximum extent the differences in temperature inside the large furnace with the large charge. The forgings which now have a predominantly bainitic structure are then subjected to long duration isothermal annealing at 650°C for the purpose of reducing the hydrogen content, eliminating internal stresses and reducing the hardness of the material. Throughout the process, the temperatures have to be carefully watched by means of pyrometers. After termination of the isothermal annealing, the forgings are allowed to cool inside the closed furnace. Introduction of this heat treatment had very good results, there were no rejects of large forgings due to internal cracks; a statistical analysis showed that after changing over to this type of heat treatment the classification of the etching tests improved by 1 to 2 degrees. The second part of the paper deals with the influence of the hydrogen content on the mechanical properties, particularly with the appearance of fractures. Extensive test data accumulated over a number of years were statistically

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evaluated and the results are supplemented by results of metallographic analyses. The author states that the information given in the paper does not contribute anything new to this field but it does give a systematic treatment of phenomena encountered during practical work. Plots are included containing information on the mechanical properties and on the influence of hydrogen content (of up to $9.5 \text{ cm}^3/100 \text{ g}$ of steel) on the mechanical properties. Photographs are also included of fractures. Individual types of failures are dealt with in some detail, particularly the fibrous fracture, which is the main subject of this part of the paper. The tests have shown conclusively that the now applied method of heat treatment enables reducing considerably the hydrogen content of the forgings. There are 24 figures, 1 table and 41 references: 17 Soviet-bloc and 24 non-Soviet-bloc.

ASSOCIATION: Závody V. I. Lenina, Plzeň (V. I. Lenin Works, Pilsen)

SUBMITTED: December 7, 1960

Card 5/6

ZLATNIK, Ivan; ZLATNIKOVA, Jindriska

Technology of forging and its effect on the quality of
large forgings. Hut listy 17 no.4:240-249 Ap '62.

1. Zavody V.I. Lenina, Praha.

ZLATNIK, Ivan, inz.

Use of vacuum cast steel in making forgings. Kut listy 19 no.12:
842-851 D '64.

1. Zavody V.I. Lenina National Enterprise, Plzen.

L 34200-66 EWP(k)/EWP(t)/ETI IGP(c) JD/EW

ACC NR: AP6026104

SOURCE CODE: GE/0029/65/000/011/0649/0658

AUTHOR: Zlatnikova, Jindra (Plzen); Zlatnik, Ivan (Plzen)

ORG: Skoda Works, Plzen

TITLE: Application of vacuum steel in the manufacture of forged articles at Skoda Works, Plzen

SOURCE: Neue Hutte, no. 11, 1965, 649-658

TOPIC TAGS: steel forging, turbine rotor, quality control, vacuum steel

ABSTRACT: A comprehensive description was provided of the experiments leading to the introduction of vacuum steels for the manufacture of forged items such as turbine rotors at Skoda Works. The quality of the items made from such steels is superior and many items not hitherto capable of being produced by conventional techniques became possible. The manufacturing operations involved were described and sampling and quality control techniques were discussed. The characteristics of forged rotors made by various techniques were compared to illustrate the superiority of those made by the technique described. Orig. art. has: 9 figures and 2 tables. [JPRS: 34,167]

SUB CODE: 13, 11 / SUBM DATE: 17Mar65 / ORIG REF: 006 / OTH REF: 009

Card 1/1 BIG

L 31239-66 EWP(K)/EWP(T)/ETI LOP(C) UD/HW

ACC NR: AP6022842

SOURCE CODE: CZ/0032/66/016/002/0113/0119

AUTHOR: Zlatnikova, J. (Engineer); Zlatnik, I. (Engineer)

ORG: SKODA, Plzen

TITLE: Mechanical properties and heterogeneity of large forgings

SOURCE: Strojirenstvi, v. 16, no. 2, 1966, 113-119

TOPIC TAGS: metal forging, mechanical property, metal heat treatment, temperature gradient

ABSTRACT: The article outlines ways in which cavities in forgings can be prevented and the mechanical properties of forgings can be improved through an adequate heat treatment. Special attention is paid to the transition temperature in various parts of forgings and to its relation to heat treatment. Orig. art. has: 9 figures and 5 tables. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 11, 13 / SUBM DATE: none

Card 1/1

BLS

UDC: 669-134:621.731.44:669-412.1

0915

0821

ZLATNIK, K.

Heat exchangers for nuclear power installations from the point of view of design, production and materials used. Jaderna energija 6 no.4:138-139 Ap '60.

ZLATNIK, K.

Discovering defects of telecommunication cable sheaths by means
of radiative gases. Jaderna energie 6 no.5:176 KJ '60.

ACC NR: AP6022842

SOURCE CODE: CZ/0032/66/016/002/0113/0119

AUTHOR: Zlatnikova, J. (Engineer); Zlatnik, I. (Engineer)

ORG: SKODA, Plzen

41
B

TITLE: Mechanical properties and heterogeneity of large forgings

SOURCE: Strojirenstvi, v. 16, no. 2, 1966, 113-119

TOPIC TAGS: metal forging, mechanical property, metal heat treatment, temperature gradient

ABSTRACT: The article outlines ways in which cavities in forgings can be prevented and the mechanical properties of forgings can be improved through an adequate heat treatment. Special attention is paid to the transition temperature in various parts of forgings and to its relation to heat treatment. Orig. art. has: 9 figures and 5 tables. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 11, 13 / SUBM DATE: none

Card 1/1

BLS

UDC: 669-134:621.731.44:669-412.1

0915

0827

ZLATNIK, Ivan; ZLATNIKOVA, Jindriska

Technology of forging and its effect on the quality of
large forgings. Hut listy 17 no.4:240-249 Ap '62.

1. Zavody V.I. Lenina, Praha.

SHLEYKIN, V.; ZLATNIKOV, G.

On the right path. Sots. trud 8 no.1:26-30 Ja '63.
(MIRA 16:2)

1. Starshiye inzheneri byuro organizatsii truda
Vil'nyusskogo elektrotekhnicheskogo zavoda "El'fa".
(Vilna--Electric equipment industry--Technological innovations)
(Vilna--Suggestion systems)

ZLOTNIKOV, G.G.

Thermocopying, electronic copying, and electrographic equipment
at the "Inforga-65" Exhibition; survey of the exhibits at the
"Inforga-65" Exhibition held in Moscow May 15 - June 30, 1965.
NTI no.9:47-54 '65. (MIRA 19:1)

ZLOTNIKOV, I.M.

Use of petroleum (casinghead) gas. Gaz. delo no. 12:3-6 '63.
(MIRA 17:10)

1. Gosudarstvennyy komitet Soveta Ministrov RSFSR po koordinatsii
nauchno-issledovatel'skikh rabot.

ZLOTNIKOV, I.M.

Completing the development of gas-condensate fields. Gaz. delo
no.12:38-39 '63. (MIRA 17:10)

1. Gosudarstvennyy komitet Soveta Ministrov RSFSR po koordinatsii
nauchno-issledovatel'skikh rabot.

ZLOTNIKOV, M.S.

Polyester maleate resin as a material for model making in the
polarization-optical method of studying stresses. Zav. lab. 31
no.11:1398-1400 '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gornoy geo-
mekhaniki i marksheyderskogo dela.

ZLOTNIKOV, S.A.

Design of a small output system conveyor with mechanized
removal of overlock cuttings from workers' stations.
Leh.prom. no.1:41-42 Ja-Mr '64.

(MIRA 19:1)

SAGATELYAN, L.S.; ZLOTNIKOV, S.L., inzh., retsenzent

[Appliances for safe operation of sheet-metal working presses; practice of the Moscow Automobile Plant] Pri sposobleniia dlia bezopasnoi raboty na kholodnoshtampovochnykh pressakh; iz opyta Moskovskogo avtomobil'nogo zavoda im. I.A.Likhacheva. Moskva, Mashinostroenie, 1964. 95 p. (MIRA 17:11)

L 08445-67 FSS-2/EWT(1) DS

ACC NR: AR6019067

SOURCE CODE: UR/0274/66/000/001/A011/A012

AUTHOR: Zlotnikov, Yu. S.

TITLE: On the effectiveness of recurrent codes in the presence of dependant errors B
47

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 1A65

REF SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 24, 1965, 119-126

TOPIC TAGS: error correcting code, coding, signal coding, communication coding, communication equipment

TRANSLATION: The relative effectiveness of certain recurrent codes proposed in recent years and intended for error corrections in communication channels in which errors are characterized by a Markovian stationary random process is discussed. Three recurrent codes are analyzed which are distinguished by the fact that they can be relatively easily used in practice if the block length does not exceed three symbols. These are: the Hagelbarger-Fink code, the type B2 code, and a recurrent code based on a cyclic code. The tables of the basic codes are included with data on the length of the correcting group, the code carrying capacity, and the number of units in coding-decoding equipment. The calculated dependence of the error probability on the length of the correcting group is given. It is concluded that for a long correcting group, the effectiveness of the codes is practically identical. Correction of error groups 4 to 6

UDC: 621.391.152

Card 1/2

ACC NR: AR6019067

symbols long appears to be optimal since an increase in group size leads to more complex equipment. 2 figures, 5 references. E. R. ①

SUB CODE: 17

Card 2/2 *eqh*

L 34200-56 EWP(R)/EWP(t)/ETI ITP(z) JD/TN

ACC NR: AP6026104

SOURCE CODE: GE/0029/65/000/011/0649/0658

AUTHOR: Zlatnikova, Jindra (Plzen); Zlatnik, Ivan (Plzen)

ORG: Skoda Works, Plzen

TITLE: Application of vacuum steel in the manufacture of forged articles at Skoda Works, Plzen

SOURCE: Neue Hutte, no. 11, 1965, 649-658

TOPIC TAGS: steel forging, turbine rotor, quality control, vacuum steel

ABSTRACT: A comprehensive description was provided of the experiments leading to the introduction of vacuum steels for the manufacture of forged items such as turbine rotors at Skoda Works. The quality of the items made from such steels is superior and many items not hitherto capable of being produced by conventional techniques became possible. The manufacturing operations involved were described and sampling and quality control techniques were discussed. The characteristics of forged rotors made by various techniques were compared to illustrate the superiority of those made by the technique described. Orig. art. has: 9 figures and 2 tables. [JPRS: 34,167]

SUB CODE: 13, 11 / SUBM DATE: 17Mar65 / ORIG REF: 006 / OTH REF: 009

Card 1/1 BIG

ZLOTNITSKIY, L.V.

High-speed convection drying of paper by means of hoods with blast
nozzles. Bumagodel. mash. no.12:79-99 '64. (MIRA 17:11)

ZLATOGURSKAYA, I. P., CAND GEOL-MIN SCI, "MINERALOGY OF
THE ZOID POLYMETALLIC DEPOSIT AND ITS COMPARISON WITH THE
SADON DEPOSIT (NORTHERN CAUCASUS)." MOSCOW, 1961. (MIN OF
HIGHER AND SEC SPEC ED RSFSR, KRASNOYARSK INST OF NON-FER--
ROUS METALS IN M. I. KALININ). (KL, 3-61, 207).

ZLATOKRILETS, N.; SHKOL'NIKOV, B., red.; KONTAR, K., tekhn.red.

Kramators'k. Kyiv, Derzh.vyd-vo obrazotvorchoho myatetstva i
muzychnoi lit-ry URSR, 1958. 1 v. (MIRA 12:11)
(Kramatorsk--Description)

ZIATOGOROV, A.

At the service of his country. Kryl.red.2 no.5:11:12 My '51.
(Kozhedub, Ivan Nikitovich) (MLBA 10:2)

ZLATOGOROV, M.

22626 Gerolicheskoye Sornovo. [K 100-Letiya Zavoda (Krasnoye Sornovo) In.
Zhdanova. Ocherk / Ogonek, 1949, No. 28, S 9-10

SO: Letopis' 30, 1949

ZIATOGOROV, Mikh.

Ul'ianovsk meets the spring. Rabotnitsa 36 no.4,5-6 Ap '58.

(MIRA 11:4)

(Ul'ianovsk--Description)

ZLATOGOROV, M.

22626. ZLATOGOROV, M. Geroicheskoye sornovo (K 100-letiyu zavoda krasnoye sornovo
im. zhdanova. Ocherk) Ogonek, 1949, No. 28, S 9-10

SO: LETOPIS' No. 20, 1949

ZLATOGOROV, M.; KOROSTELEVA, Ye., redaktor; YAKOVLEVA, Ye., tekhnicheskii
redaktor.

[Sons of the factory] Syny zavoda. [Moskva] Moskovskii rabochii.
1951. 39 p. [Microfilm] (MLRA 7:10)
(Davydov, Sergei Vasil'evich)

ZIATOGOROV, Z.N.

Achievements of an outstanding miner team. Hasop.truda v
prom. 3 no.9:28-29 S '59. (MIRA 13:2)
(Stalino Province--Coal mines and mining)

ZLATOGOROV, Z.N.

At the Seventh Congress of the Trade Union of Coal Miners. Bezop.--
truda v prom. 6 no.6:35-36 Ja '62. (MIRA 15:11)
(Trade unions—Congresses) (Coal miners)

GRECHISHKIN, V.S.; ZLATOGORSKIY, M.L.

Effect of impurities on the chemical shift of nuclear magnetic
resonance signals from Na^{23} in alkali metal halide crystals.
Fiz. tver. tela 6 no. 4:1238-1240 Ap '64. (MIRA 17:6)

1. Permskiy gosudarstvennyy universitet.

ACCESSION NR: AP4028462

8/11/81/04/006/004/1238/1240

AUTHORS: Grechishkin, V. S.; Zlatogorskiy, M. L.

TITLE: Influence of impurities on the chemical shift of nuclear magnetic resonance signals of sodium 23 in alkali-halide crystals

SOURCE: Fizika tverdogo tela, v. 6, no. 4, 1964, 1238-1240

TOPIC TAGS: nuclear magnetic resonance, impurity chemical shift, sodium 23, alkali halide crystal

ABSTRACT: The effect of impurities on the NMR chemical shift of Na^{23} in alkali-halide crystals was investigated experimentally. The magnitude of the chemical shift

$$\sigma = \frac{\nu_k - \nu_p}{\nu_p}$$

where ν_k and ν_p are the NMR frequencies with a fixed external magnetic field in the crystal and in a dilute solution respectively. The use of aqueous solutions of

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ACCESSION NR: AP4028462

sodium chloride as a reference signal for measurement of σ in alkali-halide crystals was indicated by the fact that no concentration dependence was observed. The chemical shift was measured relative to the aqueous solution of sodium chloride in solid solutions of NaCl + NaBr in varying proportions. The experimental value of σ was reduced by roughly 2.5 times with only 10% impurity, and with larger concentrations (50%-70%) positive shifts were obtained. This is evidently due to the second-order quadrupole effect, since the introduction of bromine ions into the sodium chloride lattice disrupts the cubic symmetry about the sodium nuclei. Orig. art. has: 7 equations and 1 table.

ASSOCIATION: Permskiy gosudarstvennyy universitet (Perm' State University)

SUBMITTED: 07Oct63

DATE ACQ: 27Apr64

ENCL: 00

SUB CODE: GP

NO REF SOV: 003

OTHER: 004

Card 2/2

S/181/62/004/010/061/063
B102/B104

AUTHORS: Grechishkin, V. S., Zlatogorskiy, M. L., and Osipenko, A. N.

TITLE: Magnetic screening of the Na^{23} nucleus in alkali-halide crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 10, 1962, 2987 - 2989

TEXT: The magnetic screening of the Na^{23} nucleus, not hitherto investigated, was now studied by measuring the chemical shift of the nuclear magnetic resonance signal. The measurements were made in a uniform magnetic field of 5.8 koe (instability 10^{-5} /hr, nonuniformity $10^{-6}/\text{cm}^3$), the n.m.r. signals were observed at 6.5 Mc. The following values for the magnetic screening σ were obtained: $\sigma_{\text{exp}}^{23} = -(0.21 \pm 0.05)$, $-(0.27 \pm 0.07)$, $-(0.41 \pm 0.10)$, $-(0.42 \pm 0.12)$ for Na^{23} in NaF, NaCl, NaBr, and NaI respectively. For NaCl, σ was calculated on the basis of the Kondo-Yamashita model (J. Phys. Chem. Solids, 10, 245, 1959) and the value of $-0.36 \cdot 10^{-4}$ obtained is in good agreement with experiment. Also the mean excitation energies of the outer np electrons were calculated

Card 1/2

1. ZLATOGORSKIY, N. V.
2. USSR (600)
3. Windbreaks, Shelterbelts, etc.
4. Augment and improve techniques of shelterbelt forestry. Les i step' 5 No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

ZLATOGORSKIY, M.V.

Agricultural Machinery--Maintenance and Repair

Getting ready for machinery and tractor repair on time. Les i step' 4, no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, DECEMBER 1952, 1964, Uncl.

ZLATOGORSKIY, N. V.

Afforestation

Task of shelterbelt and machine-tractor stations in preparation for spring labor.
Les i step' 4 No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May ¹⁹⁵²~~1951~~, Uncl.

1. ZLATOGORSKIY, N. V., ENG.
2. USSR (600)
4. Machine-Tractor Stations
7. Unit method is a basic way for repairing equipment of the machine-tractor station.
Les 1 step' 4 no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

1. ZLATOGORSKIY, N. V. Eng.
2. USSR (600)
4. Agricultural Machinery-Repairing
7. Unit method is a basic way for repairing equipment of the machine-tractor station.
Les i step' 4 no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

ZLATOGURSKAYA, I. P.

③

The copper-bearing sandstones of the basin of the Ishim River in Kazakhstan. ~~By I. P. Zlatogurskaya and I. P. Zlatogurskaya. Byull. Moskov. Obshchestva Ispytatel. Prirody, Otdel. Geol. 28, No. 6, 15-20 (1953).~~ The following data concerning the Cu sandstones are given: (1) stratigraphic distribution in the Paleozoic series, (2) characteristics of the tectonic structure and lithology of the surrounding rock, and (3) characteristics of the ore minerals. Two tables give results of chem. analysis of the HCl extracts of a series of sandstones and siltstones and of some limestones. The photomicrographs show 3 forms of segregation of the ore minerals in the copperiferous sandstones. G. S. Macg.

10/12/54 AM

ZLATOGORSKAYA, I.P.

Initial zoning in the Zgid complex metal deposit [with summary
in English]. Sov.geol. 1 no.6:145-156 Ja '58. (MIRA 11:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Caucasus, Northern--Mineralogy)

5 (3)

AUTHORS:

Gorin, Yu. A., Ivanov, V. S.,
Pushnova, T. G., Zlatogurskaya, V. V.

SOV/79-29-4-13/77

TITLE:

Diene Hydrocarbons From Unsaturated Alcohols (Diyenovyye uglevodorody iz nepredel'nykh spirtov). III. Catalytic Cleavage of Allyl Carbinol (III. Kataliticheskoye razlozheniye allylkarbinola)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1104 - 1108 (USSR)

ABSTRACT:

On the strength of previous investigations of the authors (Ref 9) and other chemists (Refs 1-8) it is shown in the present paper that under conditions under which an α , β -unsaturated alcohol (crotyl alcohol) readily splits off water and yielding divinyl with 85-88 mole%, the allyl carbinol primarily undergoes cleavage, thus yielding propylene and formaldehyde. The authors investigated the process of the catalytic transformation of allyl carbinol on some dehydrating components of the catalyst of S. V. Lebedev at 350°C as well as on the silicagel-tantalum catalyst at 370°C. Under these conditions divinyl is formed from allyl carbinol in small quantities only. It was found that on the dehydrating components of the cata-

Card 1/2

Diene Hydrocarbons From Unsaturated Alcohols. III. Catalytic Cleavage of Allyl Carbinol SCV/79-29-4-13/77

lysts B and B₂ of Lebedev chiefly a cleavage of the allyl carbinol takes place to give propylene and formaldehyde. The data obtained do not support the assumption that the formation of divinyl via the allyl carbinol is possible in the process of Lebedev. In order to complete the above-mentioned data it must be said that the transformation of butanediol-1.3 on the dehydrating component of the catalyst of Lebedev takes place under the formation of a considerable quantity of propylene (Ref 15). In the liquid cleavage products of butanediol -1.3 on the Lebedev catalyst methyl alcohol was found (Ref 16). Comparing the data obtained by Lebedev and those of the present paper it may be assumed that butanediol -1.3 splits off in the beginning one molecule of water and is converted to allyl carbinol which is cleft under the influence of the dehydrating component to give propylene and formaldehyde. The latter is reduced to methyl alcohol (Scheme). There are 1 table and 26 references, 17 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)
SUBMITTED: February 10, 1958
Card 2/2

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KUPA, Frantisek, inz.; ZLATONIAVEK, Frantisek

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ZLATOLINSKIY, V.N., arkhitektor; CHETYRKIN, D.A., arkhitektor; ZHUKOV, Ya.N.,
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EDEL'SHTEYN, R.I.; SAVITSEAYA, E.E.; PARKHOMENKO, L.T.;
professor, direktor; ELMINA, O.I.; SOKOLOV, G.S.; ISTOMINA, I.D.;
GORDIYENKO, Ye.G.; KLYUCHNIKOVA, L.Sh.; NADTOKA, V.L.; NOCHINA, V.N.;
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A.I.Stul'nikov)

(DYSENTERY, BACILLARY, prevention and control,

*poly-antigen immunogen)

(ANTIGENS AND ANTIBODIES,

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USSR/Microbiology - Sanitation Microbiology.

F-4

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61/49487

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PA 15/49T22

USSR/Electricity

Power Transmission, Electric

Jul 48

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Power/Electricity
Power Network
Hydroelectric Power Plants

Jun 49

Participation of Hydroelectric Stations in Cover-
ing the Maximum Load of a Union of Power Systems.
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Tr Ak Ener SSSR, Otdel Tekh Nauch No 6

It is explained that exploitation of hydroelectric
stations in a union of systems will yield great
savings in capital investment and in fuel. Replac-
ing thermoelectric units with hydroelectric ones

Power/Electricity (Contd)

Jun 49

52/49T28

will improve frequency regulation conditions in
power systems. Introduces method to evaluate
changes in the participation of hydroelectric
stations in covering maximum loads for a union
of two power systems in comparison with their
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Submitted by Acad G. M. Khrushchevskiy, 15 Feb 49.

52/49T28

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Cand Tech Sci

30/3/50

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SO Vecheryaya Moskva
Sum 71

ZLATOPOL'SKIY, A. N.

16817

USSR/Electricity - Network, Power
Fuel, Economy

Jun 50

"Certain Questions Concerning an Efficient Load Coverage of Interconnected Electrical Power Networks," A. N. Zlatopol'skiy, Power Eng Inst imeni Krzhizhanovskiy, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 6, pp 845-850

Obtains equations to determine magnitudes of power currents, that can be transmitted over intersystem connecting line, from hydroelectric plant and steam-electric plant, for which sum of expenditures of fuel to cover loss of electrical power in transmission line and to transport fuel by rail are minimum. Submitted 5 Nov 49 by Acad G. M. Krzhizhanovskiy.

16817

Sect. B.

Power Station

621.511.21 : 621.382.15
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J. LUKASZEWICZ

P.A.

L.

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Operating process of a hydroelectric power station in the daily load schedule of an electric power system. Izv. AN SSSR. Otd. tekhn. nauk No. 1, 1953.

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